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MINUTES.

Stated Meeting January 4, 1918.

Curator C. L. DOOLITTLE, C.E., Sc.D., LL.D., in the Chair.

The decease was announced of Joseph P. Remington, Ph.D., on January 1, 1918, in his 71st year.

Dr. Witmer Stone read an Obituary Notice of Prof. Amos P. Brown (see page *i*).

Mr. Edgar L. Hewett read a paper on "Our Cultural Heritage from Ancient America," which was discussed by Dr. Jastrow, Prof. L. W. Miller, Mr. E. S. Balch and Mr. Hewett.

The judges of the Annual Election held this day between the hours of two and five in the afternoon reported that the following named members were elected according to the Laws, Regulations and Ordinances of the Society, to be the Officers for the ensuing year:

President.

William B. Scott.

Vice-Presidents.

Albert A. Michelson,
George Ellery Hale,
Joseph G. Rosengarten.

Secretaries.

I. Minis Hays,
Arthur W. Goodspeed,
Harry F. Keller,
Bradley Moore Davis.

Curators.

Charles L. Doolittle,
William P. Wilson,
Leslie W. Miller.

Treasurer.

Henry La Barre Jayne.

Councillors.

(To serve for three years.)

Bertram B. Boltwood,
Ernest W. Brown,
Francis B. Gummere,
Herbert S. Jennings.

The Finance Committee and the Treasurer presented their annual reports.

Stated Meeting, February 1, 1918.

WILLIAM B. SCOTT, Sc.D., LL.D., President, in the Chair.

Dr. Alonzo E. Taylor, a newly elected member, subscribed the Laws and was admitted into the Society.

The Society commemorated the Centenary of the Death of Caspar Wistar, M.D., and the following papers on Dr. Wistar were read:

"As a Scientist and Philosopher," by Dr. I. Minis Hays.

"As a Human Anatomist," by Dr. George A. Piersol.

"As a Comparative Anatomist," by Prof. William B. Scott.

Stated Meeting, March 1, 1918.

WILLIAM B. SCOTT, Sc.D., LL.D., President, in the Chair.

Mr. Pierre S. duPont, a newly elected member, subscribed the Laws and was admitted into the Society.

The decease was announced of Samuel G. Dixon, M.D., on February 26, 1918, æt. 67.

Prof. Vernon Kellogg read a paper entitled "Behind the German Lines in Belgium and France."

Mr. Benjamin Smith Lyman presented notes on "The Soul," "The Word of God," "Classical Studies," and "Of." (See page 627.)

Stated Meeting, April 5, 1918.

WILLIAM B. SCOTT, Sc.D., LL.D., President, in the Chair.

The decease was announced of John Fulton, at Johnstown, Pa., on January 20, 1916, æt. 89.

Mr. Eli K. Price read a paper on "The Park System of Philadelphia," which was discussed by Prof. Miller, Dr. Keen, Prof. Scott and Mr. Bryant.

Mr. Price, on behalf of the Committee on the Henry M. Phillips Prize, presented the following report:

"The Committee on the Henry M. Phillips Prize have the honor to report that the Judges appointed by the Society to pass on the essays that might be submitted on 'The Relation of the Initiative, Referendum and Recall,' in competition for the Prize, have found to their regret that no essay on the chosen subject has been received of such originality and importance as to justify an award of the Prize."

"The Committee therefore recommend the adoption of the following resolutions:

"*Resolved,* That no award of the Phillips Prize be made in pursuance of the competition invited for the year 1918.

"*Resolved,* That the thanks of the Society be extended to the Hon. Charles Matteson, of Providence, Prof. Charles E. Merriam, of Chicago, Dr. Westel W. Willoughby, of Washington, Prof. Henry J. Ford, of Princeton, and the Hon. Hampton L. Carson, of Philadelphia, for their valuable services as Judges of the competition."

The Report was accepted and the resolutions appended thereto were adopted.

Stated General Meeting, April 18, 19 and 20, 1918.

Thursday Afternoon, April 18, 1918.

Opening Session, 2:30 o'clock.

William B. Scott, Sc.D., LL.D., President, in the Chair.

The following papers were read:

"Efforts of Food Control under Queen Elizabeth," by Edward P. Cheyney, A.M., LL.D., Professor of European History, University of Pennsylvania.

"Control of Commerce in War Time," by William E. Lingelbach, Professor of Modern European History, University of Pennsylvania.

"The Influence of Russian Political Parties on Domestic and International Questions," by Alexander Petrunkevitch, Ph.D., Professor of Zoölogy, Yale University.

"Problems of War Finance," by Thomas S. Adams, Ph.D., Professor of Political Economy, Yale University.

"Control of Railroads of the United States," by Emory R. Johnson, Sc.D., Professor of Transportation and Commerce, University of Pennsylvania.

"The Sanitation of Camps," by Col. Frederick F. Russell, Medical Corps, U. S. A.

Friday, April 19.

Morning Session, 10:30 o'clock.

J. G. ROSENGARTEN, LL.D., Vice-President, in the Chair.

Dr. Frank Dawson Adams, a recently elected member, subscribed the Laws and was admitted into the Society.

The following papers were read:

"The Art of George Catlin," by Edwin Swift Balch, A.B., of Philadelphia (see p. 144), which was discussed by Dr. Holland.

"Surgical Shock," by William T. Porter, M.D., LL.D., Professor of Comparative Physiology, Harvard University, which was discussed by Dr. Keen.

"The Relations of French and American Thought in the 18th and 19th Centuries," by Albert Schinz, A.M., Ph.D., Professor of French Literature, Smith College, Northampton, Mass.

"Type-writer Keyboards; An Inquiry for Some Rational Ones," by Charles R. Lanman, Ph.D., LL.D., Professor of Sanskrit, Harvard University.

"Changing of the Sex-Ratio of the Rat," by Helen D. King, Associate Professor of Embryology, Wistar Institute, Philadelphia, which was discussed by Prof. Jennings.

"History of the Study of Greek Vase Paintings," by Stephen B. Luce, Curator of Greek Antiquities, Museum of the University of Pennsylvania. (See page 649.)

"The Naiades of the Upper Tennessee Drainage," by Arnold E. Ortmann, Ph.D., Sc.D., Professor of Physical Geography, University of Pittsburgh. (See p. 521.)

"A New Type of Insect Larva," by William Morton Wheeler, Ph.D., Sc.D., Professor of Economic Entomology, Bussey Institution, Harvard University. (See p. 293.)

"A Critical Survey of the Sense of Hearing in Fishes," by George H. Parker, Sc.D., Professor of Zoölogy, Harvard University. (See p. 69.)

"The Perfecting Principle," by L. H. Bailey, LL.D., Late Professor of Horticulture, Cornell University.

"Medicinal Plants—Present and Future Supplies," by Henry Kraemer, Ph.D., Head of the Dept. of Pharmacology, University of Michigan.

"Parasitism among the Red Algæ," by William A. Setchell, Ph.D., Professor of Botany, University of California. (See p. 155.)

Afternoon Session, 2 o'clock.

ALBERT A. MICHELSON, Ph.D., Sc.D., LL.D., F.R.S., Vice-President in the Chair.

The following papers were read:

I. "Preliminary Notes of Some New Species of Agarics" (see p. 354), and

II. "The Genus *Galerula* in North America," by George F. Atkinson, Ph.D., Professor of Botany, Cornell University. (See p. 357.)

"Temperature, Imbibition and Growth," by D. T. MacDougal, Ph.D., LL.D., Director of the Department of Botanical Research, Carnegie Institution of Washington.

"Variation in Blueberry Hybrids," by Frederick V. Coville, Curator of the U. S. National Herbarium, Department of

Agriculture, Washington, D. C., which was discussed by Professors Harshberger, Webster, Goodspeed and L. H. Bailey.

"Organization, Reproduction and Heredity in *Pediastrum*," by Robert A. Harper, Ph.D., Professor of Botany, Columbia University. (See p. 375.)

I. "Dependence of the Earth's Magnetic State on Solar Conditions 1888–1916," and

II. "The Potentials of Certain Magnetized Bodies," by Louis A. Bauer, Ph.D., Sc.D., Director of the Department of Terrestrial Magnetism, Carnegie Institution of Washington, which were discussed by Professors Webster, and Michelson.

"Development of Magnetic Susceptibility in Manganese Steel by Prolonged Heat Treatment," by Charles Francis Brush, Ph.D., Sc.D., LL.D., of Cleveland (see p. 344), which was discussed by Dr. Bauer.

"Accelerometers," by N. W. Akimoff, of Philadelphia, which was discussed by Dr. Webster.

"Luminescence of Radium Salts," by D. H. Kabakjian, Assistant Professor of Physics, University of Pennsylvania, and E. Karrer, of Philadelphia.

Friday evening, 8:30 o'clock.

Lieut.-Col. Robert Andrews Millikan, Ph.D., Sc.D., spoke on "Science in Relation to the War."

Saturday, April 20.

Executive Session, 9:30 o'clock.

WILLIAM B. SCOTT, Sc.D., LL.D., President, in the Chair.

On the recommendation of the Officers and Council nominations for foreign membership were suspended by unanimous vote until the number of foreign members is reduced to seventy-five.

Prof. Ernest W. Brown, on behalf of the Nominating Committee, recommended that the term of service of the curators, like that of Councillors, be limited to three consecutive years.

On motion this recommendation was unanimously adopted.

Pending nominations for membership were read and the Society proceeded to an election.

The tellers reported that the following nominees had been elected to membership:

Residents of the United States.

Henry Andrews Bumstead, A.B., Ph.D., New Haven.
Philip Powell Calvert, Ph.D., Philadelphia.
Clarence Griffin Child, Ph.D., L.H.D., Philadelphia.
William T. Councilman, A.M., M.D., LL.D., Boston.
Victor George Heiser, M.D., New York.
Herbert C. Hoover, B.A., LL.D., Washington.
Aleš Hrdlička, M.D., Washington.
Gilbert Newton Lewis, A.M., Ph.D., Berkeley.
Theodore Lyman, Ph.D., Cambridge.
J. Percy Moore, Media, Pa.
Louis Valentine Pirsson, M.A., New Haven.
George Harrison Shull, B.S., Ph.D., Princeton.
Joseph Swain, B.L., M.S., LL.D., Swarthmore.
William Roscoe Thayer, A.M., LL.D., Litt.D., L.B.H., Cambridge.
Samuel Wendell Williston, A.M., M.D., Ph.D., Sc.D., Chicago.

Foreign Residents.

Joseph Jacques Cesaire Joffre, Paris.
Paul Painlevé, Paris.
Raymond Poincaré, Paris.

Morning Session, 10 o'clock.

WILLIAM B. SCOTT, Sc.D., LL.D., President, in the Chair.

Mr. William Roscoe Thayer, a newly elected member, subscribed the Laws and was admitted into the Society.

The following papers were read:

"Motions in the Stellar Systems Struve 1836 and Struve 208," by Eric Doolittle, Professor of Astronomy, University of Pennsylvania.

"The Number of the Spiral Nebulæ," by H. D. Curtis, As-

tronomer, Lick Observatory, Mt. Hamilton, Cal. (see p. 513), which was discussed by Prof. E. W. Brown.

"Italy in the Triple Alliance," by William Roscoe Thayer, Litt.D., L.H.D., LL.D., Cambridge, Mass.

"Ballistic Experiments by a New (?) Method," by Arthur Gordon Webster, Sc.D., LL.D., Professor of Physics, Clark University, Worcester, and Mildred Allen.

"Some Considerations on the Ballistics of a Gun of Seventy-five Miles Range," by Arthur Gordon Webster, Sc.D., LL.D., Professor of Physics, Clark University, Worcester, Mass.

"The Relation of Deposits of Iron and Coal to the Great War," by William H. Hobbs, Ph.D., Sc.D., Professor of Geology, University of Michigan.

"The Peculiar Geographical Features of Northwestern France and their Bearing on the War," by William Morris Davis, Sc.D., Ph.D., Professor Emeritus of Geology, Harvard University.

"Rig-Veda Repetitions," by Maurice Bloomfield, Ph.D., LL.D., Professor of Sanskrit and Comparative Philology, Johns Hopkins University.

Afternoon Session, 2 o'clock.

WILLIAM B. SCOTT, Sc.D., LL.D., President, in the Chair.

The following papers were read:

"The Babylonian Origin of the Jewish Method of Slaughter," by Paul Haupt, Ph.D., LL.D., Professor of Semitic Languages, Johns Hopkins University.

"Soldiers' and Sailors' Insurance," by Samuel McCune Lindsay, Ph.D., LL.D., Professor of Social Legislation, Columbia University, New York. (See page 632.)

Symposium on Food Problems in Relation to the War—

"Physiological Effects of Prolonged Reduced Diet on Twenty-five Men," by Francis G. Benedict, Ph.D., Sc.D., Director of the Nutrition Laboratory of the Carnegie Institution of Washington. (See p. 479.)

"Food Conservation from the Standpoint of the Chemistry of Nutrition," by Henry C. Sherman, Ph.D., Professor of Food

Chemistry, Columbia University, New York. (See p. 491.)

"Some Economic Aspects of the American Food Supply," by J. Russell Smith, Ph.D., Professor of Industry, Wharton School of Finance and Commerce, University of Pennsylvania. (See p. 501.)

"Food Control and Conservation in the United States Army," by John R. Murlin, Major, Sanitary Corps, U. S. A.

Stated Meeting, May 3, 1918.

WILLIAM B. SCOTT, Sc.D., LL.D., President, in the Chair.

Dr. Philip P. Calvert, a newly elected member, subscribed the Laws and was admitted into the Society.

Acknowledgments of election were received from

Philip Powell Calvert, Ph.D.
William T. Councilman, A.M., M.D., LL.D.
Victor George Heiser, M.D.
Herbert C. Hoover, B.A., LL.D.
Aleš Hrdlička, M.D., Washington.
J. Percy Moore.
Louis Valentine Pirsson, M.A.
George Harrison Shull, B.S., Ph.D.
Joseph Swain, B.L., M.S., LL.D.
William Roscoe Thayer, A.M., LL.D., Litt.D., L.H.D.
Samuel Wendell Williston, A.M., M.D., Ph.D., Sc.D.

The following papers were read:

"Inorganic Evolution from the Astronomic and Atomic Aspects," by Eric Doolittle, C.E., and Arthur W. Goodspeed, Ph.D., which were discussed by Professor Snyder, President Scott, Mr. Willcox, and Dr. Keen.

Stated Meeting, November 1, 1918.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

Professor J. Percy Moore and President Joseph Swain, newly-elected members, subscribed the Laws and were admitted into the Society.

Letters accepting membership were received from

His Excellency Raymond Poincaré,

Le Maréchal Joseph Joffre and

Prof. H. A. Bumstead

and a declination from Prof. Clarence G. Child.

A communication from the Rector of the University of Lund stating that the University would celebrate on the 27th of September of this year, the 250th Anniversary of its founding was read. The Secretaries were instructed to send to the University the congratulations and good wishes of the Society on the occasion.

The decease was announced of

Prof. Guido Cora, at Piedmont, on October 10, 1917, æt. 66.

Grove K. Gilbert, A.B., A.M., LL.D., at Jackson, Mich., on May 1, 1918, æt. 75.

Frank Miles Day, B.S., M.A., at Philadelphia, on June 15, 1918, æt. 57.

Rt. Rev. John J. Keane, at Dubuque, Iowa, on June 22, 1918, æt. 79.

James Douglas, B.A., LL.D., at New York, on June 25, 1918, æt. 81.

Stephen Farnum Peckham, A.M., on July 11, 1918, æt. 79.

William H. Greene, M.D., at Wenonah, N. J., on August 8, 1918, æt. 65.

Maxime Bôcher, A.B., Ph.D., at Cambridge, Mass., on September 12, 1918, æt. 51.

Mr. Joseph Willcox, at Philadelphia, on October 1, 1918, æt. 89.

Dr. Isaac Norris, at Florence, Italy, on October 22, 1918, æt. 84.

Prof. John A. Miller read a paper on "The Total Solar Eclipse of June 8, 1918," which was discussed by Prof. Snyder.

Special Meeting, November 21, 1918.

WILLIAM B. SCOTT, D.Sc., LL.D., President in the Chair.

DR. ETIENNE BURNET, of the French Educational Mission to the United States, read a paper on "Pasteur as a Representative of the French Scientific Spirit."

Stated Meeting, December 6, 1918.

WILLIAM B. SCOTT, D.Sc., LL.D., President in the Chair.

Letters accepting election to membership were read from

Gilbert Newton Lewis, A.M., Ph.D.

Theodore Lyman, Ph.D.

The decease was announced of,

George Francis Atkinson, Ph.D., at Tacoma, on Nevember 14th, 1918, æt. 65.

Charles Richard Van Hise, M.S., LL.D., at Milwaukee, on November 19th, 1918, æt. 61.

Samuel A. Green, M.D., at Boston, on December 5th, 1918, æt. 88.

Prof. Franklin Edgerton read a paper on "India's Place in the Modern World," which was discussed by Dr. Keen, Prof. R. G. Kent, Mr. Bryant, President Scott and Prof. Edgerton.

The President delivered his Annual Address.